



**\*Figure 3:** Washington County highlighted in the Commonwealth of Virginia



### Washington County and the Towns of Abingdon, Damascus, and Glade Spring

#### **Water Source Overview**

Major water sources include the Middle Fork Holston River, Coles Spring, Reservation Spring, and purchased water.

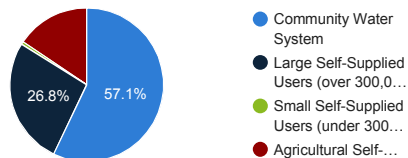
**\*Table 1:** Reported (2010) and projected (2040) water use by system type for Washington County in MGD

Type	Reported Use 2010 MGD	Projected Use 2040 MGD
Community Water System	7.200	7.200
Large Self-Supplied Users (over 300,000 gal/month)	3.380	3.380
Small Self-Supplied Users (under 300,000 gal/month)	0.077	0.077
Agricultural Self-Supplied Users	1.959	1.959

#### **Water Use by System Type**

Approximately 1,095 people use private groundwater wells for residential water supply. All tables and graphs represent reported water use including Sales to other localities, if applicable.

**\*Figure 1:** Percentage of reported water use by system type in 2010 (No use data shown on graph if less than .01 MGD: Refer to Table 1)



**\*Figure 2:** Disaggregated water use percentages for Community Water Systems in 2010 (No graph shown if no disaggregated use data reported)

**\*Table 2:** Reported (2010) and projected (2040) groundwater and surface water use for Washington County in MGD

Reported 2010 Groundwater Use (MGD)	Reported 2010 Surface Water Use (MGD)	Projected 2040 Groundwater Use (MGD)	Projected 2040 Surface Water Use (MGD)
1.15	11.47	1.15	11.47

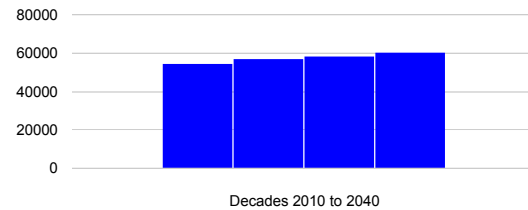
#### **Projected Water Demand**

Population is projected to increase slightly through the planning period of 2040. Washington County is estimated to experience a water deficit as early as 2006. Regional plans for addressing projected shortfalls of municipal supply include maintaining, increasing, or initiating supply interconnections with neighboring localities, infrastructure upgrades, groundwater source development, increasing permitted surface water withdrawals, upgrading current VDH permitted capacities, and continuing existing water conservation policies or developing new ones.

**\*Table 3:** Washington County population projections by decade from 2010 to 2040 (data gathered from VEC projections - 05/20/13)

2010	2020	2030	2040	% Change (2010-2040)
54,876	57,040	58,800	60,402	11.1%

**\*Figure 4:** Washington County population projections by decade for 2010, 2020, 2030 & 2040



**\*Table 4 & Figure 5:** Washington County water demand trends by decade for 2010, 2020, 2030 & 2040 in MGD

Reported Use 2010 MGD	Projected Use 2020 MGD	Projected Use 2030 MGD	Projected Use 2040 MGD	Percent Change (2010-2040)
12.62	12.62	12.62	12.62	-0.0%



#### **Drought Management Practices**

The County and Towns adopted ordinances for the implementation and enforcement of the Drought Response and Contingency Plan. (Southwest Virginia Regional WSP)